



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

January 26, 2015

Ms. Diana Williams
Registration Specialist
Winfield Solutions LLC
P.O. Box 64589
St. Paul, MN 55164-0589

Subject: Label Notification per PRN 98-10 and 2001-5 – Adding resistance management
recommendation and a mode of action code
Product Name: Actellic 5E Insecticide Low Odor Formulation
EPA Registration Number: 1381-170
Application Date: December 2, 2014
Decision Number: 498990

Dear Ms. Williams:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notices (PRN) 98-10 and 2001-5 for the above referenced product. The Registration Division (RD) has conducted a review of this request for its applicability under PRN 98-10 and 2001-5 and finds that the action requested falls within the scope of PRN 98-10 and 2001-5.

The label submitted with the application has been stamped "Notification" and will be placed in our records.

If you have any questions, you may contact Eric Bohnenblust at (703) 347-0426 or via email at Bohnenblust.eric@epa.gov.

Sincerely,

A handwritten signature in black ink, appearing to read "Richard Gebken".

Richard Gebken
Product Manager 10
Invertebrate & Vertebrate Branch 2
Office of Pesticide Programs

ACTELIC[®] 5E INSECTICIDE

LOW ODOR FORMULATION

**FOR CONTROL OF INSECTS ON STORED CORN (FIELD AND POP) AND GRAIN SORGHUM
(Bulk or Bagged Field Corn, Popcorn, and Grain Sorghum Seed)**

ACTIVE INGREDIENT:

Pirimiphos-methyl
0-(2-(diethylamino)-6-methyl-4-pyrimidinyl)0,0-dimethyl phosphorothioate57%

OTHER INGREDIENTS:.....43%

TOTAL..... 100%

Actellic 5E Insecticide contains 5 pounds active ingredient per gallon.

KEEP OUT OF REACH OF CHILDREN DANGER/PELIGRO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.
(If you do not understand the label, find someone to explain it to you in detail.)

FIRST AID

If in eyes	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15-20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice.
If swallowed	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by the poison control center or doctor. • Do not give anything by mouth to an unconscious person.
If on skin or clothing	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.
If inhaled	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. • Call a poison control center or doctor for further treatment advice.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.
HOTLINE NUMBER: In case of emergency call toll free 1-877-424-7452. **NOTE TO PHYSICIAN:** This product contains an organophosphate. Pirimiphos-methyl is a cholinesterase inhibitor. Treat symptomatically. If exposed, plasma and red blood cell cholinesterase tests may indicate significance of exposure (baseline data are useful). Give 2 mg. of atropine intramuscularly or subcutaneously and repeat if symptoms of poisoning reappear. Pralidoxime (2 PAM) may be therapeutic if used early; however, use only in conjunction with atropine. In case of severe poisoning, use antidote immediately after establishing an open airway and respiration. Actellic 5E Insecticide contains petroleum distillate. Vomiting may cause aspiration pneumonia.

See side panel for additional precautionary statements.

EPA Reg. No. 1381-170
Distributed By:
Winfield Solutions, LLC
P.O. Box 64589
St. Paul, MN 55164-0589

NOTIFICATION

1381-170
 The applicant has certified that no changes, other than those reported to the Agency have been made to the labeling. The Agency acknowledges this notification by letter dated:

01/26/2015

EPA Est No. _____
 Net Contents _____

1/1229/1 1/1202/4



PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER: Corrosive. Causes irreversible eye damage. Harmful if swallowed. Do not get in eyes. Wear protective eyewear (goggles or face shield) when handling. Avoid contact with skin or clothing. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse.

Personal Protective Equipment (PPE)

Some materials that are chemical-resistant to this product are barrier laminate or viton. If you want more options, follow the instructions for category G on an EPA chemical-resistant category selection chart.

Mixers, loaders, and other handlers supporting admixture seed and/or grain treatments must wear:

Long sleeve shirt and long pants

Shoes plus socks

Chemical-resistant gloves

Protective eyewear

See engineering controls for additional requirements.

All other mixers, loaders, applicators and other handlers must wear:

Coveralls over long sleeve shirt and long pants

Chemical-resistant footwear plus socks

Chemical-resistant gloves

Protective eyewear

In addition, mixers and loaders must wear:

Chemical-resistant apron

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry. Discard clothing and other absorbent material that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

User Safety Recommendations

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing/PPE immediately if pesticides get inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENGINEERING CONTROLS

For products marketed in containers greater than 64 fluid oz. in size:

For all seed and/or grain treatments, handlers must use a closed system/loading system designed by the manufacturer to enclose the pesticide in a manner that prevents it from contacting handlers. This product is formulated in a container designed for closed mixing and loading. In addition:

- handlers must wear the PPE specified for handlers supporting admixture seed and/or grain treatment.
- handlers must have available to them in case of accident or spill: coveralls and chemical resistant footwear.
- handlers must wear protective eyewear.

For products marketed in water soluble packets:

Water soluble packets, when used correctly, qualify as a closed mixing/loading system under the Worker Protection Standard for Agricultural Pesticides [40 CFR 170.240(d)(4)]. Mixers and loaders using water soluble packets must wear: the personal protective equipment required above for Mixers/Loaders, and must be provided, must have immediately available and must use in an emergency (such as a broken package, spill or equipment breakdown) the following PPE: coveralls and chemical-resistant footwear.

ENVIRONMENTAL HAZARDS

Do not apply directly to water. Do not contaminate water by cleaning of equipment or disposal of waste.

PHYSICAL OR CHEMICAL HAZARDS

Do not use or store near heat or open flame.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

STORAGE AND DISPOSAL

PROHIBITIONS: Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited.

STORAGE: Store in a cool place and protect from freezing. If accidentally frozen, reconstitute by gently warming to room temperature and thoroughly mixing contents. Keep container closed when not in use.

PESTICIDE DISPOSAL: Pesticides are acutely toxic. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL: Use label language appropriate for container size and type.

Nonrefillable containers. Do not reuse or refill this container. Clean container promptly after emptying.

Nonrefillable container equal to or less than 5 gallons. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container $\frac{1}{4}$ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or, by other procedures approved by state and local authorities.

Nonrefillable container greater than 5 gallons. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container $\frac{1}{4}$ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or, by other procedures approved by state and local authorities.

Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or, by other procedures approved by state and local authorities.

**FOR CHEMICAL EMERGENCY: Spill, leak, fire, exposure or accident, call
CHEMTREC 1-800-424-9300.**

RESISTANCE MANAGEMENT RECOMMENDATIONS

Actellic 5E Insecticide contains a Group 1 Insecticide. Insect/mite biotypes with acquired resistance to Group 1 insecticides/acaricides may eventually dominate the insect/mite population if Group 1 insecticides/acaricides are used repeatedly in the same site or in successive years as the primary method of control for targeted species. This may result in partial or total loss of control of those species by Actellic 5E Insecticide or other Group 1 insecticides/acaricides.

To delay insecticide resistance consider:

- Avoiding the consecutive use of Actellic 5E Insecticide or Group 1 insecticides that have a similar target site of action, on the same insect/mite species.
- Using tank-mixtures or premixes with insecticides/acaricides from different target site of action Groups as long as the involved products are all registered for the same use and have different sites of action,
- Basing insecticide/acaricide use on a comprehensive IPM program.
- Monitoring treated insect/mite populations for loss of efficacy.
- Contacting your local extension specialist, certified crop advisors, and/or Winfield Solutions, LLC representative for herbicide resistance management and/or integrated pest management recommendations for specific site and resistant pest problems.

APPLICATION DIRECTIONS

Do not make more than one application per crop. Only treat corn or grain sorghum which has not previously been treated with any pirimiphos-methyl containing product. Treatment of seed is only allowed off-farm (for example, in a facility where seed is bagged).

ADMIXTURE OR TOP DRESSING

The best practice to protect stored corn (field and pop) and grain sorghum from insect infestation is to use an admixture treatment of Actellic 5E Insecticide. However, as it may not always be possible to move grain, a surface treatment of Actellic 5E Insecticide will help prevent the establishment of migrating insects. The top dressing application will not substitute for a treatment of the entire amount of stored corn (field and pop) or grain sorghum. But within your current stored grain management system, it will help protect the surface from invasion by insects.

FOR PRODUCT PACKAGED IN WATER SOLUBLE PACKAGING (WSP)

The enclosed packets containing Actellic 5E Insecticide are water soluble. Do not allow packets to become wet prior to adding to the spray tank. Do not handle with wet hands or gloves. Do not break open packets. Reseal outer container to protect remaining packets.

To prepare the spray mixture, drop the required number of unopened packets as determined under “Admixture Treatment” or “Top Dressing Treatment,” into the spray tank while filling the water to the desired level. Operate the agitator while mixing. Depending on the water temperature and the degree of agitation, the packets should be completely dissolved within a few minutes from the time they were added to the water.

ADMIXTURE TREATMENT

For products marketed in containers of 64 fl. oz. or less, use for treatment is prohibited.

Apply spray solution uniformly with suitable application equipment as grain enters storage or export containers. Select nozzle size and operating pressure to adjust the application rate with flow of grain. Prepare desired dilution of Actellic 5E Insecticide in spray tank and mix well. Make sure spray solution stays mixed, especially in large holding tanks. Apply the spray solution as a coarse, uniform low pressure spray in order to minimize drift. Shield nozzle if necessary. Apply the specified amount of Actellic 5E Insecticide in 5 gallons of water or 3-5 gallons of at least twice

refined soybean oil to each 30 tons (60,000 pounds) of grain according to the following rates. If using water soluble packets, apply Actellic 5E in water only.

	Fluid Ounces/WSP Packets	ppm Concentration
Shelled Corn (field corn, popcorn)	9.2-12.3 / 3 or 4 packets	6-8
Grain Sorghum	9.2-12.3 / 3 or 4 packets	6-8
Grain	No. of Bushels Approximately Equal to 30 Tons of Grain	
Shelled Corn (field corn, popcorn)	1,071	
Grain Sorghum	1,071	

TOP DRESSING TREATMENT

To each 1,000 square feet of grain surface, apply 3 fluid ounces (1 WSP packet) of Actellic 5E Insecticide diluted in 2 gallons of water. The treatment should be split as follows: Spray half of the mixture evenly over the surface and rake into the grain to a depth of 4 inches. Apply the remaining half of the mixture (1 gallon) to the raked surface.

Before making a surface application of Actellic 5E Insecticide, it will be necessary to remove any webbing and break up crusting that exists on the grain surface. If high numbers of Indian Meal Moth worms (2-3 per sq ft) exist, it will be best to remove the webbing, fumigate, and then apply Actellic 5E Insecticide as a surface application. Mix the following amount of Actellic 5E Insecticide with 2 gallons of water for a total mixture to treat 1,000 sq ft of grain surface:

	Fluid Ounces/WSP Packets	ppm Concentration
Shelled Corn (field corn, popcorn) and Sorghum	3.0 / 1 packet	8

INSECTS CONTROLLED WITH ACTELLIC 5E INSECTICIDE

COLEOPTERA		LEPIDOPTERA
Cigarette beetle	Maize weevil	Almond moth
Confused flour beetle	Merchant grain beetle	Angoumois grain moth
Corn sap beetle	Red flour beetle	Indian meal moth
Flat grain beetle	Rice weevil	
Granary weevil	Sawtoothed beetle	
Hairy fungus beetle		

- Grains treated with Actellic 5E Insecticide at rates indicated on this label may be used immediately for any food or feed purpose.
- Do not make more than one application per crop. Only use on treated corn (field and pop) or sorghum which has not previously been treated with any pirimiphos-methyl containing product.
- Calibrate spray equipment and periodically check in order to ensure proper spray rates.
- Do not store diluted Actellic 5E Insecticide in spray tank more than 48 hours before use.
- Avoid severely dusty application sites.
- Seed applications of Actellic 5E Insecticide are restricted to bulk or bagged seed corn (field and pop) and sorghum grain.
- Only to be used as grain enters storage or export containers. Not for use to control soil insects.
- Do not enter treated areas or have contact with treated grain or seed until sprays have dried.

WARRANTY DISCLAIMER

The directions for use of this product must be followed carefully. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, (1) THE GOODS DELIVERED TO YOU ARE FURNISHED "AS IS" BY MANUFACTURER OR SELLER AND (2) MANUFACTURER AND SELLER MAKE NO WARRANTIES, GUARANTEES, OR REPRESENTATIONS OF ANY KIND TO BUYER OR USER, EITHER EXPRESS OR IMPLIED, OR BY USAGE OF TRADE, STATUTORY OR OTHERWISE, WITH REGARD TO THE PRODUCT SOLD, INCLUDING, BUT NOT LIMITED TO MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, USE, OR ELIGIBILITY OF THE PRODUCT FOR ANY PARTICULAR TRADE USAGE. UNINTENDED CONSEQUENCES, INCLUDING BUT NOT LIMITED TO INEFFECTIVENESS, MAY RESULT BECAUSE OF SUCH FACTORS AS THE PRESENCE OR ABSENCE OF OTHER MATERIALS USED IN COMBINATION WITH THE GOODS, OR THE MANNER OF USE OR APPLICATION, INCLUDING WEATHER, ALL OF WHICH ARE BEYOND THE CONTROL OF MANUFACTURER OR SELLER AND ASSUMED BY BUYER OR USER. THIS WRITING CONTAINS ALL OF THE REPRESENTATIONS AND AGREEMENTS BETWEEN BUYER, MANUFACTURER AND SELLER, AND NO PERSON OR AGENT OF MANUFACTURER OR SELLER HAS ANY AUTHORITY TO MAKE ANY REPRESENTATION OR WARRANTY OR AGREEMENT RELATING IN ANY WAY TO THESE GOODS.

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